

NNL's signature research programme has produced a Robot and Plant Visualisation system. It builds upon NNL's robot experience and expertise in robot kinematics and software development.

## Simulate

Our visualisation system enables you to simulate remote deployable equipment, such as mobile robots and fixed manipulators, by controlling the robot using joystick controllers. Uses include:

- Operator training of robotic equipment, minimising equipment damage, wear and tear.
- Mission plan and optimise robot tasks.
- Selecting and evaluating the best robot for your task by simulating reach and dexterity in your environment.
- The system can be interfaced with your robot manufacturer's joysticks or standard games joysticks, such as Xbox 360™ controllers.

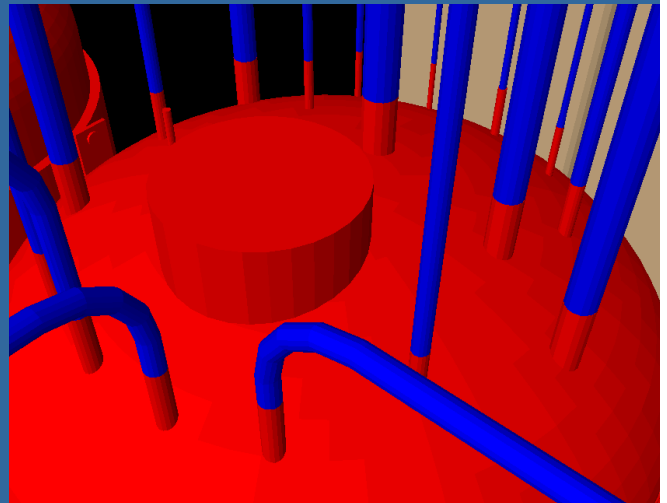


## Plant Fly-Through

Our visualisation system can be used to 'fly-through' a virtual CAD model of your plant.

Uses include:

- Enhancing plant operator's spatial awareness of the plant, before executing a cell intervention task.
- Mission plan and optimise intervention tasks.
- Navigation through the plant is accomplished using simple keyboard strokes, such as cursor keys for moving forwards / backwards and left / right.



## Benefits

- Different robot and plant environments can be programmed, assigned kinematic attributes and integrated easily.
- For cell intervention tasks, NNL's visualisation system saves money and optimises the task.

Contact: Dr Jeffrey A Kuo C.Eng, MIMechE, Mechanical and Software Engineer

T. 00 44 (0) 1925 289925 E. [jeffrey.a.kuo@nnl.co.uk](mailto:jeffrey.a.kuo@nnl.co.uk)